**Group 16 - Public Transportation Planner – A16**

|  |  |
| --- | --- |
| Omri Sharof  עומרי שרוף | 206391146 |
| Aleksandr Pitkin  אלכסנדר פיטקין | 333879013 |
| Ilya Vorotynstev  איליה וורטינצב | 324755735 |
| Boris Shoostin  בוריס שוסטין | 321718512 |

Develop an application that provides public transportation routes, schedules, and real-time updates. Implement features for trip planning and fare calculation.

**Non-functional requirements:**

1. Performance: The app should be quick, taking no more than 3 seconds to respond to users.

2. Reliability: It should work well almost all the time, with very few glitches or outages.

3. Scalability: The app should handle more users and information as it becomes more popular.

4. Security: The service will be protected from DOS & DDOS attacks.

5. Portability: It should work on all devices and web browsers.

6. Privacy: Only collect and use user data with their permission and keep it private.

7. Usability: Make the app available in different languages for users around the world.

8. Performance: The app should give to users the most optimal route to their destination.

**Functional requirements:**

1. Users should be able to type in where they're starting from and where they want to go.

2. User can check if there are any delays or problems with their chosen route in real-time.

3. App shows to users the different transportation options so they can plan their route.

4. Users can check how much their trip will cost based on distance and other factors.

5. App shows to user the schedules for buses, trains, etc., so they know when to catch them.

6. Allow users to share their thoughts or report any issues.